



## SEQUENCE LISTING

<11> Chang, Tse W.  
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<120> COMPOSITIONS AND METHODS FOR INDUCTION  
OF ACTIVE AUTOIMMUNITY

<130> THI-001

<140> 09/852,976  
<141> 2001-05-10

<150> US 60/204,191  
<151> 2000-05-11

<150> PCT/US00/12997  
<151> 2000-05-11

<160> 2

<170> FastSEQ for Windows Version 4.0

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<211> 338  
<212> PRT  
<213> Homo sapiens

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20 25 30  
Ala Gly Ser Arg Ile Val Gln Glu Lys Val Phe Lys Gly Leu Asp Leu  
35 40 45  
Leu Glu Lys Ala Ala Glu Met Leu Ser Gln Leu Asp Leu Phe Ser Arg  
50 55 60  
Asn Glu Asp Leu Glu Glu Ile Ala Ser Thr Asp Leu Lys Tyr Leu Leu  
65 70 75 80  
Val Pro Ala Phe Gln Gly Ala Leu Thr Met Lys Gln Val Asn Pro Ser  
85 90 95  
Lys Arg Leu Asp His Leu Gln Arg Ala Arg Glu His Phe Ile Asn Tyr  
100 105 110  
Leu Thr Gln Cys His Cys Tyr His Val Ala Glu Phe Glu Leu Pro Lys  
115 120 125  
Thr Met Asn Asn Ser Ala Glu Asn His Thr Ala Asn Ser Ser Met Ala  
130 135 140  
Tyr Pro Ser Leu Val Ala Met Ala Ser Gln Arg Gln Ala Lys Ile Gln  
145 150 155 160  
Arg Tyr Lys Gln Lys Lys Glu Leu Glu His Arg Leu Ser Ala Met Lys  
165 170 175  
Ser Ala Val Glu Ser Gly Gln Ala Asp Asp Glu Arg Val Arg Glu Tyr  
180 185 190  
Tyr Leu Leu His Leu Gln Arg Trp Ile Asp Ile Ser Leu Glu Glu Ile  
195 200 205  
Glu Ser Ile Asp Gln Glu Ile Lys Ile Leu Arg Glu Arg Asp Ser Ser  
210 215 220  
Arg Glu Ala Ser Thr Ser Ser Arg Gln Glu Arg Pro Pro Val Lys

225                    230                    235                    240  
Pro Phe Ile Leu Thr Arg Asn Met Ala Gln Ala Lys Val Phe Gly Ala  
              245                    250                    255  
Gly Tyr Pro Ser Leu Pro Thr Met Thr Val Ser Asp Trp Tyr Glu Gln  
              260                    265                    270  
His Arg Lys Tyr Gly Ala Leu Pro Asp Gln Gly Ile Ala Lys Ala Ala  
              275                    280                    285  
Pro Glu Glu Phe Arg Lys Ala Ala Gln Gln Glu Glu Gln Glu Glu  
              290                    295                    300  
Lys Glu Glu Glu Asp Asp Glu Gln Thr Leu His Arg Ala Arg Glu Trp  
              305                    310                    315                    320  
Asp Asp Trp Lys Asp Thr His Pro Arg Gly Tyr Gly Asn Arg Gln Asn  
              325                    330                    335  
Met Gly

<210> 2  
<211> 133  
<212> PRT  
<213> Mus musculus

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Val Pro Ala Met Thr Ser Ser Asp Leu Pro Leu Asn Phe Gln Gly Ser  
1                5                10                15  
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20                25                30  
Ser Ser Met Val Lys Phe His Cys Tyr Thr Asn His Ser Gly Ala Leu  
35                40                45  
Thr Trp Phe Arg Lys Arg Gly Ser Gln Gln Pro Gln Glu Leu Val Ser  
50                55                60  
Glu Glu Gly Arg Ile Val Gln Thr Gln Asn Gly Ser Val Tyr Thr Leu  
65                70                75                80  
Thr Ile Gln Asn Ile Gln Tyr Glu Asp Asn Gly Ile Tyr Phe Cys Lys  
85                90                95  
Gln Lys Cys Asp Ser Ala Asn His Asn Val Thr Asp Ser Cys Gly Thr  
100              105              110  
Glu Leu Leu Val Leu Gly Phe Ser Thr Leu Asp Gln Leu Lys Arg Arg  
115              120              125  
Asn Thr Leu Lys Asp  
130